

May 10, 2006



U.S. Department
of Transportation

400 Seventh Street, S.W.
Washington, D.C. 20590

**Pipeline and
Hazardous Materials
Safety Administration**

DOT-SP 7765
(SEVENTEETH REVISION)

EXPIRATION DATE: April 30, 2010

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Carleton Technologies, Inc.
Orchard Park, New York
2. PURPOSE AND LIMITATIONS:
 - a. This special permit authorizes the transportation in commerce of certain compressed gases in non-DOT specification pressure vessels. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
 - b. The safety analyses performed in development of this special permit only considered the hazards and risks associated with transportation in commerce.
 - c. Party status will not be granted to this special permit.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.302a(a)(4) in that a non-DOT specification cylinder is not authorized, except as specified herein.
5. BASIS: This special permit is based on the application of Carleton Technologies, Inc. dated May 2, 2006 submitted in accordance with §§ 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Material Description			
Proper Shipping Name	Hazard Class/ Division	Identi- fication Number	Packing Group
Argon, compressed	2.2	UN1006	N/A
Helium, compressed	2.2	UN1046	N/A
Nitrogen, compressed	2.2	UN1066	N/A

NOTE: A missile gas storage system or component which contains a quantity of pyrotechnic materials must be classed and approved as provided for in § 173.56. If the pyrotechnic material augments the volume of the gas in the cylinder, or in any way enhances the performance of the compressed gas, the device must be tested in the same configuration as when shipped.

7. SAFETY CONTROL MEASURES:

- a. PACKAGING - Packaging prescribed is a limited life, non-DOT specification packaging, described as a missile gas storage system, consisting of a welded steel sphere, and an electric squib containing a Division 1.4 explosive. The packaging must comply with U.S. Army Drawing no. MCD 13308130, Rev. C; MCD 13308162, MCD 13308164 and MCD 13308160, submitted with Carleton Controls Corporation's application of February 13, 1979, or comply with drawings 3385-0001 and 3385-0002, submitted with Carleton Group's letter of November 30, 1982, or comply with drawing B40427 or B40450 submitted with Carleton Technologies Inc.'s letter of April 21, 1994 or comply with drawing B41707 or B41702 submitted with Carleton Technologies Inc.'s letter of April 24, 1997, or comply with drawing B42107 or B42100 submitted with Carleton Technologies Inc.'s letter of April 14, 1998, or comply with drawing B42796 submitted with Carleton Technologies Inc.'s letter of November 15, 1999, or comply with drawing B44529 or B44544 submitted with Carleton Technologies Inc.'s letter of February 27, 2002, or comply with drawing B45808 submitted with Carleton Technologies Inc.'s letter of May 18, 2004,

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and tested as described in the specification on file with the Office of Hazardous Materials Special Permits and Approvals (OHMSPA) and in compliance with DOT Specification 39 § 178.35 and § 178.65) except as follows:

§ 178.65(a)(1) - Maximum size may not exceed 55 cu. in. Maximum service pressure may not exceed 8,900 psig at 70°F.

§ 178.65(b) - The material must be one of the following heat treatable steels: Maraging 250, Carpenter custom 455 or PH 13-8 MO steels.

§ 178.65(c)(4) - Add: All welds must be 100 percent radiographically inspected.

§ 178.65(f)(1) - Each cylinder must be tested at an internal pressure of at least 1.5 times the test pressure and must be held at that pressure for at least 30 seconds.

§ 178.65(f)(2) - One cylinder taken from beginning of each lot and one from each 250 or less successively produced within the lot thereafter, must be hydrostatically tested to 2.22 times the test pressure without failure.

§ 178.65(f)(2)(i) - A failure occurs at a gauge pressure less than 2.22 times the test pressure.

(f)(2)(ii), (f)
(2)(iii) and Not applicable.
(f)(2)(iv)

(f)(3) * * *

(f)(4) Spheres tested per § 178.65(f)(2)
must be scrapped.

§ 178.65(g) - Flattening test must be performed on one cylinder taken from the two successive production lots heat treated within three weeks. The number of cylinders in a lot (see § 178.65(f)(2)) may not exceed 250.

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§ 178.65(g)(3)

* * *

Add: Flattening between flat plates is authorized.

§ 178.65(g)(4) - Cylinders or test rings may not crack when flattened so their outer surfaces are not more than ten times wall thickness apart.

§178.65(i)(2)(i) - Cylinders must be marked "DOT-SP 7765" instead of "DOT-39".

b. OPERATIONAL CONTROLS:

(1) Cylinders must be shipped in strong outside packagings in accordance with § 173.301(a)(9).

(2) Each cylinder may be filled a maximum of 10 times to a pressure not exceeding 8,900 psig, provided each is inspected and proof tested to 1.5 times the test pressure prior to filling.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this special permit who receives a package covered by this special permit may reoffer it for transportation provided no modifications or changes are made to the package or its contents and it is reoffered for transportation in conformance with this special permit and the HMR.

b. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

c. The completely assembled unit must qualify under the test criteria used in CGA Pamphlet S-1.1, Pressure Relief Device Standards, Part 1.

d. Packagings permanently marked 'DOT-E 7765', prior to October 1, 2007 may continue to be used under this special permit for the remaining service life of the packaging or until the special permit is no longer valid. Packagings marked on or after October 1, 2007 must be marked 'DOT-SP 7765'.

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- e. Shipping papers displaying 'DOT-E 7765' may continue to be used until October 1, 2007, provided the special permit remains valid.
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel and cargo only aircraft.
10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel, aircraft or motor vehicle used to transport packages covered by this special permit. The shipper must furnish a current copy of this special permit to the air carrier before or at the time the shipment is tendered.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:
- o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
 - o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
 - o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)- 'The Hazardous Materials Safety and Security Reauthorization Act of 2005' (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term

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'exemption' to 'special permit' and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 - Immediate notice of certain hazardous materials incidents, and 171.16 - Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for Robert A. McGuire
Associate Administrator
for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Materials Safety Administration, Department of Transportation, Washington, D.C. 20590. Attention: PHH-31.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm Photo reproductions and legible reductions of this special permit are permitted.
Any alteration of this special permit is prohibited.

PO: CWF/sln

5/10/2006

Company Name City / State	Application Date	Issue Date	Expiration Date
Carleton Technologies, Inc. Orchard Park, NY	May 02, 2006	May 10, 2006	Apr 30, 2010